Attorney Docket No. 10559-284001
Serial No.: 09/675,817
Amendment dated February 6, 2004
Reply to Office Action dated October 8, 2003

Amendments to the Specification:

Please replace the paragraph beginning at page 6, line 4 with the following amended paragraph:

B1

Turning now to Figure 2, a block diagram of a signal processing system 200 including DSP 110 according to an embodiment is shown. One or more analog signals may be provided by an external source, e.g., antenna 105, to a signal conditioner 202. Signal conditioner 202 ~~is~~ may perform certain preprocessing functions upon the analog signals. Exemplary preprocessing functions may include mixing several of the analog signals together, filtering, amplifying, etc. An analog-to-digital converter (ADC) 204 may be coupled to receive the preprocessed analog signals from signal conditioner 202 and to convert the preprocessed analog signals to digital signals consisting of samples, as described above. The samples may be taken according to a sampling rate determined by the nature of the analog signals received by signal conditioner 202. The DSP 110 may be coupled to receive digital signals at the output of the ADC 204. The DSP 110 may perform the desired signal transformation upon the received digital signals, producing one or more output digital signals. A digital-to-analog converter

(DAC) 206 may be coupled to receive the output digital signals from the DSP 110. The DAC 206 converts the output digital signals into output analog signals. The output analog signals are then conveyed to another signal conditioner 208. The signal conditioner 208 performs post-processing functions upon the output analog signals. Exemplary post-processing functions are similar to the preprocessing functions listed above. It is noted that various alternatives of the signal conditioners 202 and 208, the ADC 204, and the DAC 206 are well known. Any suitable arrangement of these devices may be coupled into a signal processing system 200 with the DSP 110.